

**Green, Angela**

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**From:** Myrna Riel [myrnariel@sagllp.com]  
**Sent:** Thursday, March 12, 2009 11:26 AM  
**To:** Green, Angela  
**Subject:** Certificate of Correction for Patent No. 6,960,450

**Attachments:** 6960450.PDF



6960450.PDF (905 KB)

<<6960450.PDF>>

Dear Ms. Green:

In accordance with your instructions in our telephone conversation of March 12, 2009, please find the following papers filed with the USPTO in connection with Patent No. 6,960,450.

Thank you very much for your assistance on this matter.

Best regards,

Myrna Riel  
Shlesinger, Arkwright & Garvey LLP

Case 7207

In re U.S. Patent of Shigeki NAMIMATSU  
Patent No. 6,960,450  
Application No.: 10/092,462  
For: ANTIGEN ACTIVATING METHOD AND ANTIGEN ACTIVATOR



INCLUDING: REQUEST FOR CERTIFICATE OF CORRECTION  
OF APPLICANT'S MISTAKE (2 pgs.);  
CERTIFICATE OF CORRECTION FORM (1 pg.); and  
Check in the amount of \$100.00.

Please stamp date received and return.

MAILROOM

MMZ/mr

COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent of Shigeki NAMIMATSU:

Patent No. 6,960,450

Attn: Cecilia B. Newman  
CERTIFICATE OF  
CORRECTION BRANCH  
(571) 273 0025

Issued: November 1, 2005

For: ANTIGEN ACTIVATING METHOD  
AND ANTIGEN ACTIVATOR

STATUS INQUIRY REGARDING CERTIFICATE OF CORRECTION  
FILED JANUARY 10, 2006

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

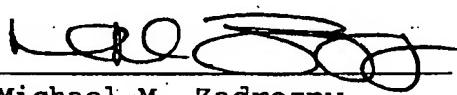
Dear Sir:

A Request for Certificate of Correction was filed on January 10, 2006, copy attached. A reply to the Request has not been received by patentee.

It is requested the Office advise patentee as to the status of the Certificate of Correction.

Respectfully submitted,

Date: JAN. 9, 2009

  
Michael M. Zadrozny  
Reg. No. 30,985

SHLESINGER, ARKWRIGHT & GARVEY LLP  
1420 King Street, Suite 600  
Alexandria, Virginia 22314  
(703) 684-5600  
mr



US006960450B2

(12) United States Patent  
Nanimatsu(10) Patent No.: US 6,960,450 B2  
(45) Date of Patent: Nov. 1, 2005(54) ANTIGEN ACTIVATING METHOD AND  
ANTIGEN ACTIVATOR(76) Inventor: Shigeki Nanimatsu, Arusu Kawagoe  
Rm. 106, 3-9-4, Shinjuku-cho,  
Kawa(\*) Notice: Subj: Arayuku-machi  
patent  
U.S.C.

(21) Appl. No.: 10/092,462

(22) Filed: Mar. 8, 2002

## (65) Prior Publication Data

US 2002/0182653 A1 Dec. 5, 2002

## (30) Foreign Application Priority Data

May 29, 2001 (JP) ..... 2001-160424

(51) Int. Cl. 7 ..... G01N 1/30; G01N 33/48

(52) U.S. Cl. .... 435/40.5; 435/40.52; 436/141;

436/129; 424/78.2

(58) Field of Search ..... 435/40.52; 436/141,  
436/129; 424/78.2

## (56) References Cited

## U.S. PATENT DOCUMENTS

5,244,787 A 9/1993 Key et al.  
5,578,452 A 11/1996 Shi et al.

## OTHER PUBLICATIONS

Shigeki Nanimatsu et al; Reversing the Effects of Formalin Fixation with Citraconic Anhydride and Heat : A Universal Antigen Retrieval Method; Mar. 11, 2005; vol. 53(1); pp. 1-11; Journal of Histochemistry &amp; Cytochemistry.

Shi S.R., Key, M.E., Kalra, K.L.; Antigen retrieval in formalin-fixed paraffin-embedded tissues: an enhancement method for immunohistochemical staining based on microwave oven heating of tissue sections. J. Histochem. 39: 741-748, 1991.

Shi S.R., Cote R.J., Young L., Imam S.A. Taylor C.R.: Use of pH9.5 Tris-HCl buffer containing 5% urea for antigen retrieval immunohistochemistry, Biotechnic &amp; Histochemistry 71(4): 190-6, 1996 Jul. 1996.

Cattoretti G., Becker M.H.G., Key G., et al.: Monoclonal antibodies produced against recombinant parts of the Ki-67 molecule (MIB-1 to -3) stain proliferating cells in formalin fixed, paraffin-embedded, microwave processed tissues. Histochem J. 234:611, 1992 (Abstr).

Shin R.W., Iwaki T., Kitamono T., et al.: Hydrated autoclave pretreatment enhances tau immunoreactivity in formalin-fixed normal and Alzheimer's disease brain tissues. Lab. Invest. 64: 693-702, 1991.

Hamakawa Shinji: An investigation on antigen activation by heat treatment during enzyme-antibody staining using anti-CD4 monoclonal antibody (Byohri to Rinsboh (Pathology and Clinical Pathology)) 1999, 17(11): 1201-1205.

Hamakawa Shinji: An investigation on an antigen activator in place of EDTA solution (Byohri Gijutu (Pathological Techniques)) 1999, 60:10-14.

Shan-Rong Shi et al., Antigen Retrieval Techniques: Current Perspectives, Journal of Histochemistry and Cytochemistry, vol. 49, 931-938, Aug. 2001, (13 pages).

Shan-Rong Shi et al., Antigen Retrieval Immunohistochemistry: Past, Present, and Future, Journal of Histochemistry and Cytochemistry, vol. 45, 327-344 (30 pages).

Primary Examiner—Long V. Le

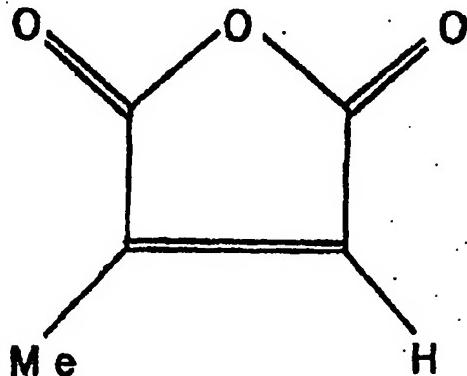
Assistant Examiner—Deborah A. Davis

(74) Attorney, Agent, or Firm—Shlesinger Arkwright &amp; Garvey LLP

## (57) ABSTRACT

An object of the present invention is to provide a reagent for activating and unmasking antigens in a immuno-tissue-chemical staining. A slice of tissue cells on a slide glass is heated or heated under pressurization by an electric pot, autoclave, microwave oven, scalding, or constant-temperature bath for a sufficient time period in CCA aqueous solution of suitable pH and CCA concentration, thereby activating and unmasking antigenicity of antigen masked by aldehyde fixation.

9 Claims, 1 Drawing Sheet



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent of  
Shigeki NAMIMATSU

Patent No. 6,960,450

Issued: November 1, 2005

Application No.: 10/092,462

For: ANTIGEN ACTIVATING METHOD  
AND ANTIGEN ACTIVATOR

Attn: CERTIFICATE OF  
CORRECTIONS BRANCH

COPY

REQUEST FOR CERTIFICATE OF CORRECTION  
OF APPLICANT'S MISTAKE

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

In accordance with 37 C.F.R. 1.323, patentee hereby requests the Director issue a Certificate of Correction pursuant to 35 U.S.C. Section 255 to correct a mistake in the above-identified patent incurred through the fault of applicant.

Attached is a Certificate of Correction Form identifying the error regarding the inventor's address and providing the correct address.

The inventor's address is incorrect because the address in the Declaration and Power of Attorney was incorrectly entered by

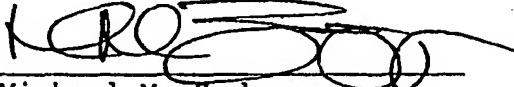
COPY

applicant. The incorrect address is a mistake of minor character and does not involve changes which would constitute new matter or require re-examination.

Attached is a check in the amount of \$100.00 for the government Certificate of Correction fee. It is believed no additional fee is due with this submission; however, should that be incorrect, please charge to Deposit Account No. 19-2105 and inform the undersigned in due course.

Respectfully submitted,

Date: JANUARY 10, 2006

  
Michael M. Zadrozny  
Reg. No. 30,985

SHLESINGER, ARKWRIGHT & GARVEY, LLP  
1420 King Street, Suite 600,  
Alexandria, Virginia 22314  
(703) 684-5600  
mr

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent of  
Shigeki NAMIMATSU : Attn: CERTIFICATE OF  
Patent No. 6,960,450 : CORRECTIONS BRANCH  
Issued: November 1, 2005 :  
Application No.: 10/092,462 :  
For: ANTIGEN ACTIVATING METHOD :  
AND ANTIGEN ACTIVATOR :

REQUEST FOR CERTIFICATE OF CORRECTION  
OF APPLICANT'S MISTAKE

}Assistant Commissioner for Patents  
P.O. Box 1450  
}Alexandria, Virginia 22313-1450

Dear Sir:

In accordance with 37 C.F.R. 1.323, patentee hereby  
requests the Director issue a Certificate of Correction pursuant  
to 35 U.S.C. Section 255 to correct a mistake in the above-  
identified patent incurred through the fault of applicant.

Attached is a Certificate of Correction Form identifying  
the error regarding the inventor's address and providing the  
correct address.

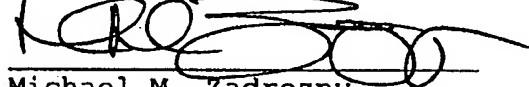
The inventor's address is incorrect because the address in  
the Declaration and Power of Attorney was incorrectly entered by

applicant. The incorrect address is a mistake of minor character and does not involve changes which would constitute new matter or require re-examination.

Attached is a check in the amount of \$100.00 for the government Certificate of Correction fee. It is believed no additional fee is due with this submission; however, should that be incorrect, please charge to Deposit Account No. 19-2105 and inform the undersigned in due course.

Respectfully submitted,

Date: JANUARY 10, 2006



Michael M. Zadrozny  
Reg. No. 30,985

SHLESINGER, ARKWRIGHT & GARVEY, LLP  
1420 King Street, Suite 600,  
Alexandria, Virginia 22314  
(703) 684-5600

mr

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 6,960,450

APPLICATION NO.: 10/092,462

ISSUE DATE : November 1, 2005

INVENTOR(S) : Shigeki NAMIMATSU

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Coverpage, the inventor's address, "Shinjuku-cho" should read -- Arajuku-machi --.

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

SHLESINGER, ARKWRIGHT & GARVEY LLP  
1420 King Street, Suite 600  
Alexandria, Virginia 22314

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*



UNITED STATES PATENT AND TRADEMARK OFFICE

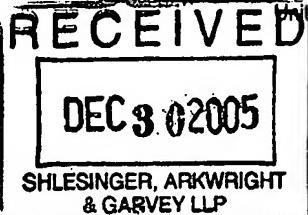
Commissioner for Patents

United States Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

[www.uspto.gov](http://www.uspto.gov)



November 31, 2005

Patent No. : 6,960,450

Inventor(s) : Shigeki NAMIMATSU

Issued : November 1, 2005

Title : ANTIGEN ACTIVATING METHOD AND ANTIGEN ACTIVATOR

Doc./File No. :

Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction for the above-identified patent under the provisions of Rule 1.322 and 1.323.

An error on a patent can be corrected by a certificate of correction, if appropriate. Accordingly, a petition under C.F.R. 1.182 is required to correct the alleged error concerning the inventor's address. Since this information is printed solely in accordance with the typewritten information provided on the Declaration, Oath or ADS, and since the error was the result of applicant's failure to comply with the requirement that the complete and correct information be provided accordingly, no correction is in order here under the provisions of Rules 1.322 or 1.323, unless a petition is granted.

However, a petition under 37 CFR 1.182 should be directed to the attention of the Assistant Commissioner for Patents using the following mailing address or FAX number.

By Mail:      Commissioner of Patents and Trademarks  
                  Box PETITIONS  
                  Washington, D.C. 20231

By FAX:      (703) 308-6916  
                  Attn: Office of Petitions

If the petition under 37 CFR 1.182 is filed and granted the patentee would be entitled to a certificate of correction under 37 CFR 1.323 (required fee currently \$100).

Any telephone inquiry concerning this communication should be directed to Ms. A. Green at (703) 308-9380 ext. 123.

*Angela*

*Cecelia B. Newman*  
Cecelia B. Newman  
Decisions & Certificates  
of Correction Branch  
(703) 308-9390 or (703) 308-9380 ext. 123

Shlesinger, Arkwright & Garvey LLP  
1420 King Street, Ste 600  
Alexandria, VA 22314

CBN/arg

Case 7207

MMZ/sdj

In re Application of Shigeki NAMIMATSU ( )

Serial No. 10/092,462 - Filed: March 8, 2002

For: ANTIGEN ACTIVATING METHOD AND ANTIGEN ACTIVATOR



INCLUDING: Request for Corrected Filing Receipt (1 page) and a marked up copy of the Official Filing Receipt showing corrections to be made (1 page)

PLEASE STAMP DATE RECEIVED AND RETURN

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :  
Shigeki NAMIMATSU :  
Serial No.: 10/092,462 :  
Filed: March 8, 2002 :  
For: ANTIGEN ACTIVATING METHOD :  
AND ANTIGEN ACTIVATOR :  
:

REQUEST FOR CORRECTED FILING RECEIPT

Honorable Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Dear Sir:

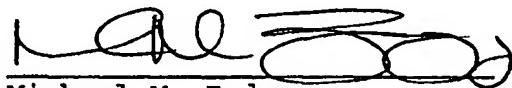
Applicant respectfully requests that the United States Patent and  
Trademark Office issue a Corrected Filing Receipt, to read as follows:

After Applicant's name, delete "Kawagoe-shi, JAPAN" and insert  
therefor - - arajuku-machi, Kawagoe-shi, Saitama-ken, JAPAN - -.

A copy of the original filing receipt showing the corrections in  
red ink is attached.

Respectfully submitted,

Date: MAY 23, 2002

  
Michael M. Zadrozny  
Attorney for Applicant  
Reg. No. 30,985

SHLESINGER, ARKWRIGHT & GARVEY LLP  
3000 South Eads Street  
Arlington, Virginia 22202  
(703) 684-5600  
sdj



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILED DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/092,462	03/08/2002	1653	538	7207	1	18	7

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SHLESINGER, ARKWRIGHT & GARVEY LLP  
3000 South Eads Street  
Arlington, VA 22202

APR 10 2002

SHLESINGER, ARKWRIGHT  
& GARVEY LLP

CONFIRMATION NO. 1219

FILING RECEIPT



\*OC00000007812814\*

Date Mailed: 04/08/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

arajuku-machi, Saitama-ken,  
Shigeki Nanimatsu, Kawagoe-shi, JAPAN;

Domestic Priority data as claimed by applicant

Foreign Applications

JAPAN 2001-160424 05/29/2001

If Required, Foreign Filing License Granted 04/05/2002

Projected Publication Date: 12/05/2002

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

Title

Antigen activating method and antigen activator

Preliminary Class

435



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, DC 20231  
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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/092,462	03/08/2002	Shigeki Nanimatsu	7207

SHLESINGER, ARKWRIGHT & GARVEY LLP  
3000 South Eads Street  
Arlington, VA 22202

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MAY 31 2002

SHLESINGER, ARKWRIGHT  
& GARVEY LLP

CONFIRMATION NO. 1219



\*OC00000008192545\*

Date Mailed: 05/28/2002

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Claims, Fees, and Inventors

In response to your request for a corrected Filing Receipt, the Office is unable to comply with the request because:

- The total number of claims appearing on the Filing Receipt does not include multiple dependent claims. The total fee appearing on the Filing Receipt includes the cost of multiple dependent claims that were present at the time the application was filed.
- The filing fee is correct. It may include additional claims fees and/or the surcharge under 37 CFR 1.16(e) for filing an oath/declaration or basic filing fee after the application filing date; or it may not reflect fees refunded to the applicant that were paid by mistake.
- The number of claims reflected on the filing receipt is correct. Upon review of the claims, it was found that there was a miscalculation by the applicant. This may be due to improperly presented multiple dependent claims, typographical error, misnumbering of the claims, or other oversight. An amendment may be necessary to correct the problem.
- The filing fee reflected on the filing receipt is correct. Applicant may have miscalculated the fees due.
- Applicant calculated fees as other than small entity; however, applicant asserted small entity status in the application. Therefore, fees were applied as small entity and the remainder was refunded to the applicant.
- The difference between the fees paid and the fees due was refunded to the applicant and will not be shown on the filing receipt.
- The inventor information may be truncated if the family name consists of more than 50 characters (letters and spaces combined) and if the given name consists of more than 50 characters (letters and spaces combined).
- The inventor's residence allows for up to 40 characters (letters and spaces combined).

- The inventor's residence will only include the city and state for U.S. residences or city and country for residences outside the U.S. (See MPEP 605.02).
- A petition to correct the inventorship is needed to make this change. See 37 CFR 1.48. For non-provisional applications, the petition should be directed to the Director of the examining group assigned to your application.
- Changes made after submission of an executed declaration to the inventor information other than correction of typographical errors must be submitted in the form of a substitute declaration. Change of inventorship requires a petition under 37 CFR 1.48.
- The number of drawings shown on the filing receipt reflects the number of drawing sheets submitted and is not necessarily equal to the number of figures submitted.
- The correspondence address was captured as directed by applicant on filing. If you wish correspondence to be directed otherwise, please submit a request for a change of address.
- The docket number allows a maximum of 25 characters.
- The person signing on behalf of the deceased inventor is reflected on the Filing Receipt as the legal representative.
- The filing date of a parent application cannot be changed by this request. A petition to correct the filing date in the parent application is required.

*Nuria Marquez*

Customer Service Center  
Office of Initial Patent Examination  
(703) 308-1202

Patent Application No. 2001-160424

NAME OF DOCUMENT Application for Patent  
REFERENCE NUMBER 212299  
FILING DATE May 29, 2001  
ATTENTION The Commissioner of the Patent Office  
INT'L CLASSIFICATION C12N 09/00

INVENTOR

Address Arusu Kawagoe Room 106, 3-9-4, Arajuku-machi,  
kawagoe-shi, Saitama-ken, JAPAN  
Name Shigeki NAMIMATSU

APPLICANT FOR PATENT

Address Arusu Kawagoe Room 106, 3-9-4, Arajuku-machi,  
kawagoe-shi, Saitama-ken, JAPAN  
Name Shigeki NAMIMATSU

AGENT

Identification Number 100095267  
Patent Attorney  
Name Takiro KOJIMA

AGENT

Identification Number 100111604  
Patent Attorney  
Name Takuya SATO

OFFICIAL FEE

Number of Ledger 056672  
Official Fee ¥21,000

Submitted Documents

Name of Document Specification 1  
Name of Document Abstract 1

Necessity of Proof Yes

Certification No. 2002-3016145